

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application:

Claims 1-20 (Canceled).

Claim 21 (Currently Amended): A method, comprising:
reacting a polyol in an open mold with a polyisocyanate compound in the presence of a catalyst, a blowing agent and a foam stabilizer to form a flexible polyurethane foam,
wherein the polyol has a hydroxyl value of at most 15 mgKOH/g and the polyisocyanate compound is a prepolymer-modified polymethylenepolyphenyl polyisocyanate.

Claim 22 (Canceled):

Claim 23 (Canceled).

Claim 24 (Previously Presented): The method as claimed in Claim 21, wherein the polyisocyanate compound comprises reacted units of polyethylene glycol monomethyl ether and polymethylenepolyphenyl polyisocyanate.

Claim 25 (Previously Presented): The method according to Claim 21, wherein the polyol has an unsaturation value of at most 0.05 meq/g.

Claim 26 (Previously Presented): The method according to Claim 21, wherein the polyol is produced in the presence of a double metal cyanide complex catalyst.

Claim 27 (Previously Presented): The method according to Claim 21, wherein the polyol comprises fine polymer particles.

Claim 28 (Previously Presented): The method according to Claim 21, wherein the foam stabilizer is a silicone foam stabilizer having a silicone content of from 10 to 50 mass%.

Claim 29 (Previously Presented): The method according to Claim 21, wherein the polyol has a hydroxyl value of less than 10 mgKOH/g.

Claim 30 (Previously Presented): The method according to Claim 29, wherein the polyol has an unsaturation value of at most 0.05 meq/g.

Claim 31 (Previously Presented): The method according to Claim 29, wherein the polyol is produced in the presence of a double metal cyanide complex catalyst.

Claim 32 (Previously Presented): The method according to Claim 29, wherein the polyol comprises fine polymer particles.

Claim 33 (Previously Presented): The method according to Claim 29, wherein the foam stabilizer is a silicone foam stabilizer having a silicone content of from 10 to 50 mass%.

Claim 34 (Previously Presented): A flexible polyurethane foam obtained by the process as claimed in Claim 21.

Claim 35 (Previously Presented): The flexible polyurethane foam according to Claim 34, wherein the polyol has a hydroxyl value of less than 10 mgKOH/g.

Claim 36 (Previously Presented): The flexible polyurethane foam according to Claim 34, wherein the polyol is produced in the presence of a double metal cyanide complex catalyst.

Claim 37 (Previously Presented): The flexible polyurethane foam according to Claim 34, wherein the foam stabilizer is a silicone foam stabilizer having a silicone content of from 10 to 50 mass%.

Claim 38 (Previously Presented): The method according to Claim 21, wherein the air permeability of the flexible foam is from 0 to 0.08 ft³/min.

Claim 39 (Previously Presented): The method according to Claim 21, wherein the core impact resiliency of the flexible foam is from 30 to 46%.

Claim 40 (New): A method, comprising:
reacting a polyol in an open mold with a polyisocyanate compound in the presence of a catalyst, a blowing agent and a foam stabilizer to form a flexible polyurethane foam,
wherein the polyol has a hydroxyl value of at most 15 mgKOH/g and the polyisocyanate compound is a prepolymer polymethylenepolyphenyl polyisocyanate modified with a hydroxyl group containing compound, which is different from the polyol.

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Claim 41 (New): The method as claimed in Claim 40, wherein said hydroxyl group containing compound has a hydroxyl value of more than 15 mgKOH/g.

BASIS FOR THE AMENDMENT

Claims 22 and 23 have been canceled. The limitations of Claim 22 have been included in Claim 21.

New Claim 40 has been added as supported by Claim 21 and the Examples of the specification.

New Claim 41 has been added as supported by the Examples.

No new matter is believed to have been added by entry of this amendment. Entry and favorable reconsideration are respectfully requested.

Upon entry of this amendment Claims 21, 24-41 will now be active in this application.

INTERVIEW SUMMARY

Applicants wish to thank Examiner Cooney for the helpful and courteous discussion with Applicants' Representative on May 17, 2005. During this discussion it was noted that the term "modified" is should be defined in the claims. With regard to the cited references, it was noted that none of them discloses or suggests the claimed combination of a reaction in an open mold of a polyol having a hydroxyl value of at most 15 mg/KOH and a prepolymer-modified polymethylenepolyphenyl polyisocyanate.